

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

Source:

Date Processed by STIC:

10/S17,707

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS: http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 2023 1 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
 U.S. Patent and Trademark Office, 220 20th Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: 0 77	
ATTN: NEW RULES C	ASES: PLEASE DISREGARD ENCLISION	SCHICE HOMBERS 9 5 1 1 1 1 1 1	
Wrapped Nuc Wrapped Ami	icics The number/text at the end of each line was refrieved in a word processor after prevent "wrapping."	SERIAL NUMBER: LPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWAI The "wrapped" down to the next line. This may occur if your file for creating it. Please adjust your right margin to .3; this will	RE
2Invalid Line Le	ngth The rules require that a line not excee	d 72 characters in length. This includes white spaces.	
JMisaligned Ami	no The numb	This includes while spaces.	
Numbering	use space characters, instead.	cid is misaligned. Do not use tab codes between numbers:	
Non-ASCII		SCII(DOS) text, as required by the Sequence Rules. Please	
SVariable Length GPatentin 2.0	variable length and indic	presenting more than one sessidue. Per Sequence Rules, agle residue. Please present the maximum number of each ate in the <220>-<223> section that some may be missing	
"bug"	sequences(s) Previously coded nucleic acid sequence, the subsequent amino acid sequence. The Artificial or Unknown sequences.	sed the <220>-<223> section to be missing from animo acid Patentln would automatically generate this section from the Please manually copy the relevant <220>-<223> section to its applies to the mandatory <220>-<223> sections for	
⁷ Skipped Sequence; (OLD RULES)	Sequence(s) missing If intentional (2) INFORMATION FOR SEQ ID NO X (i) SEQUENCE CHARACTERIS (xi) SEQUENCE DESCRIPTION SEQ If This sequence is intentionally skipped	II. please insert the following lines for each skipped sequence (insert SEQ ID NO where "X" is shown) TICS (Do not insert any subheadings under this heading) NO X (insert SEQ ID NO where "X" is shown)	
8 Skipped See	Please also adjust the "(ii) NUMBER OF	SEQUENCES "response to include the skipped sequences	
(NEW RULES)	<pre>Sequence(s)</pre>	at, please insert the following lines for each skipped sequences.	
Use of n's or Xaa's		•	
(NEW RULES)	Per 1.82) of Sequence D.	cally responses are Unknown, Artificial Sequence, or Section is required when <213> responses is Unknown at the Sequence of Sequence or Se)
11 Usc of <220> S	equence(s)	Cosponse is Unknown or	
(5	See "Federal Register," 00101/1998, Vol. 63	· · · · · · · · · · · · · · · · · · ·	
lis	sulting in missing mandatory numeric ident (ting). Instead, please use "File Manager" o	Patentin version 2.0. This causes a corrupted file, ifiers and responses (as indicated on raw sequence	
13 Misusc of n/X22 "n	" can only represent a single	copy file to floppy disk	
	" can only represent a single <u>nucleotide</u> ; "X	aa" can only represent a single amino acid	

AMC - Biotechnology Systems Branch - 09/09/2003



PCT

RAW SEQUENCE LISTING DATE: 12/22/2004
PATENT APPLICATION: US/10/517,707 TIME: 16:16:10

Input Set : A:\MER134SEQLIST.TXT

Output Set: N:\CRF4\12222004\J517707.raw

```
4 <110> APPLICANT: BAKER, Matthew
             CARR, Francis J.
      7 <120> TITLE OF INVENTION: MODIFIED BRYODIN 1 WITH REDUCED
              IMMUNOGENICITY
     10 <130> FILE REFERENCE: MER-134
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/517,707
C--> 12 <141> CURRENT FILING DATE: 2004-12-10
     12 <150> PRIOR APPLICATION NUMBER: PCT/EP03/06055
                                                               Dies Not Comply Corrected Diskette Needed (P5.3-4)
     13 <151> PRIOR FILING DATE: 2003-06-10
     15 <150> PRIOR APPLICATION NUMBER: EP 02012911.0
     16 <151> PRIOR FILING DATE: 2002-06-11
     18 <160> NUMBER OF SEQ ID NOS: 183
     20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
     22 <210> SEQ ID NO: 1
     23 <211> LENGTH: 267
     24 <212> TYPE: PRT
     25 <213> ORGANISM: Homo sapiens
     27 <400> SEQUENCE: 1
     28 Asp Val Ser Phe Arg Leu Ser Gly Ala Thr Thr Thr Ser Tyr Gly Val
     29 1
                         5
                                            10
     30 Phe Ile Lys Asn Leu Arg Glu Ala Leu Pro Tyr Glu Arg Lys Val Tyr
                                        25
     32 Asn Ile Pro Leu Leu Arg Ser Ser Ile Ser Gly Ser Gly Arg Tyr Thr
                                    40
     34 Leu Leu His Leu Thr Asn Tyr Ala Asp Glu Thr Ile Ser Val Ala Val
                                55
     36 Asp Val Thr Asn Val Tyr Ile Met Gly Tyr Leu Ala Gly Asp Val Ser
                            70
     38 Tyr Phe Phe Asn Glu Ala Ser Ala Thr Glu Ala Ala Lys Phe Val Phe
                                             90
     40 Lys Asp Ala Lys Lys Lys Val Thr Leu Pro Tyr Ser Gly Asn Tyr Glu
                    100
     42 Arg Leu Gln Thr Ala Ala Gly Lys Ile Arg Glu Asn Ile Pro Leu Gly
                                    120
     44 Leu Pro Ala Leu Asp Ser Ala Ile Thr Thr Leu Tyr Tyr Thr Ala
                                135
                                                     140
     46 Ser Ser Ala Ala Ser Ala Leu Leu Val Leu Ile Gln Ser Thr Ala Glu
                            150
                                                 155
    48 Ser Ala Arg Tyr Lys Phe Ile Glu Gln Gln Ile Gly Lys Arg Val Asp
                                            170
                        165
    50 Lys Thr Phe Leu Pro Ser Leu Ala Thr Ile Ser Leu Glu Asn Asn Trp
                                        185
    52 Ser Ala Leu Ser Lys Gln Ile Gln Ile Ala Ser Thr Asn Asn Gly Gln
```

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Output Set: N:\CRF4\12222004\J517707.raw

```
195
                               200
53
54 Phe Glu Ser Pro Val Val Leu Ile Asp Gly Asn Asn Gln Arg Val Ser
                           215
                                               220
56 Ile Thr Asn Ala Ser Ala Arg Val Val Thr Ser Asn Ile Ala Leu Leu
                                           235
                      230
58 Leu Asn Arg Asn Asn Ile Ala Ala Ile Gly Glu Asp Ile Ser Met Thr
             245
                                       250
60 Leu Ile Gly Phe Glu His Gly Leu Tyr Gly Ile
              260
64 <210> SEQ ID NO: 2
65 <211> LENGTH: 21
66 <212> TYPE: PRT
67 <213> ORGANISM: Homo sapiens
69 <400> SEQUENCE: 2
70 Arg Tyr Thr Leu Leu His Leu Thr Asn Tyr Ala Asp Glu Thr Ile Ser
71 1
           5
72 Val Ala Val Asp Val
73 .
              20
76 <210> SEQ ID NO: 3
77 <211> LENGTH: 15
78 <212> TYPE: PRT
79 <213> ORGANISM: Homo sapiens
81 <400> SEQUENCE: 3
82 Ala Thr Glu Ala Ala Lys Phe Val Phe Lys Asp Ala Lys Lys
86 <210> SEQ ID NO: 4
87 <211> LENGTH: 24
88 <212> TYPE: PRT
89 <213> ORGANISM: Homo sapiens
91 <400> SEQUENCE: 4
92 Glu Arg Leu Gln Thr Ala Ala Gly Lys Ile Arg Glu Asn Ile Pro Leu
94 Gly Leu Pro Ala Leu Asp Ser Ala
              20
98 <210> SEQ ID NO: 5
99 <211> LENGTH: 27
100 <212> TYPE: PRT
101 <213> ORGANISM: Homo sapiens
103 <400> SEQUENCE: 5
104 Ile Thr Thr Leu Tyr Tyr Tyr Thr Ala Ser Ser Ala Ala Ser Ala Leu
105 1
                    5
106 Leu Val Leu Ile Gln Ser Thr Ala Glu Ser Ala
110 <210> SEQ ID NO: 6
111 <211> LENGTH: 21
112 <212> TYPE: PRT
113 <213> ORGANISM: Homo sapiens
115 <400> SEQUENCE: 6
116 Ala Thr Ile Ser Leu Glu Asn Asn Trp Ser Ala Leu Ser Lys Gln Ile
```

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Input Set : A:\MER134SEQLIST.TXT

Output Set: N:\CRF4\12222004\J517707.raw

```
117 1
                                           10
                                                              15
    118 Gln Ile Ala Ser Thr
                    20
    119
    122 <210> SEQ ID NO: 7
    123 <211> LENGTH: 268
    124 <212> TYPE: PRT
    125 <213> ORGANISM: Artificial Sequence
    127 <220> FEATURE:
    128 <223> OTHER INFORMATION: Modified byrodin 1 protein
    W--> 130 <221> NAME/KEY: VARIANT
    134
              Xaa=Ala, Gly, Pro
    135
              Xaa=Pro, Tyr
W--> 137 <221> VARIANT
    138 <222> LOCATION: 56, 61, 65, 67
    139 <223> OTHER INFORMATION: Xaa=Thr, Ser
    140
              Xaa=Pro
    141
              Xaa=Ala, Gly, Pro
    142
              Xaa=Ala, Gly, Pro
W--> 144 <221> VARIANT
    145 <222> LOCATION: 95, 96, 104
    146 <223> OTHER INFORMATION: Xaa=Ala, Gly, Pro, His, Asp, Glu, Asn, Gln, Lys,
    147
              Arg, Ser, Thr
    148
              Xaa=Ala, Gly, Pro
    149
              Xaa=Ala, Gly, Pro
W--> 151 <221> VARIANT
    152 <222> LOCATION: 115, 118, 120, 121
    153 <223> OTHER INFORMATION: Xaa=Ala, Pro, Ser, Thr, His, Lys
    154
              Xaa=Thr
    155
              Xaa=His
    156
              Xaa=Ser
W--> 158 <221> VARIANT
    159 <222> LOCATION: 122, 123, 126
    160 <223> OTHER INFORMATION: Xaa=Ala, Ser, thr, Pro, Asn, Asp, Glu, Gly, His,
    161
              Lys, Gln
    162
              Xaa=Thr
    163
              Xaa=Ala, Pro
W--> 165 <221> VARIANT
    166 <222> LOCATION: 130, 133, 137, 140
    167 <223> OTHER INFORMATION: Xaa=Ala, Ile, Phe, Gly, Met, Pro, Val, Trp, Tyr
    168
              Xaa=Phe, Pro, Trp
    169
              Xaa=Ala, Gly, Pro
    170
```

W--> 173 <221> VARIANT

176

Xaa=Ala, Gly, Pro

174 <222> LOCATION: 142, 143, 152, 153

Xaa=Ala, Gly, Pro

175 <223> OTHER INFORMATION: Xaa=Ala, Gly, Pro

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/517,707

DATE: 12/22/2004 TIME: 16:16:10

Input Set : A:\MER134SEQLIST.TXT

Output Set: N:\CRF4\12222004\J517707.raw

```
177
               Xaa=Ala, Gly, Pro, Ser, Thr
     178
              Xaa=Ala, Gly, Pro, Ile, Met, Ser, Thr
W--> 180 <221> VARIANT
     181 <222> LOCATION: 154, 155
     182 <223> OTHER INFORMATION: Xaa=Ala, Gly, Pro
               Xaa=Ala, Gly, Pro, Ser, Thr, His, Asp, Asn, Gln,
     183
     184
               Lys, Arq
W--> 186 <221> VARIANT
     187 <222> LOCATION: 187, 189
     188 <223> OTHER INFORMATION: Xaa=Ala, Gly, Pro, Thr, Ser, His, Lys, Arg, Asp,
               Glu, Asn, Gln
     190
               Xaa=Ala, Gly, Pro, Thr, Ser, His, Lys, Arg, Asp,
     191
               Glu, Asn, Gln
W--> 193 <221> VARIANT
     194 <222> LOCATION: 196, 198
     195 <223> OTHER INFORMATION: Xaa=Gln
               Xaa=His, Lys, Arg, Asp, Glu, Asn,, Phe, Leu, Pro,
     196
     197
               Ser, Tyr, Trp
W--> 199 <221> VARIANT
     200 <222> LOCATION: 200, 202
                              ON: Xaa=Ala, Gly, Pro, IIII, Ser Tyr Gly Sheet,
     201 <223> OTHER INFORMATION: Xaa=Ala, Gly, Pro, Thr, Ser, His, Lys, Arg, Asp,
     202
               Glu, Asn, Gln
     203
              Xaa=Asp
W--> 205 ≠400> 7
W--> 206(Xaa\Asp Val Ser Phe Arg Leu Ser Gly Ala Thr Thr Thr Ser Tyr Gly
   208 Val Phe Ile Lys Asn Leu Arg Glu Ala Leu Pro Tyr Glu Arg Lys Val
    210 Tyr Asn Ile Pro Leu Leu Arg Ser Ser Ile Ser Gly Ser Gly Arg Tyr
 MN212 Xaa Xaa Leu Xaa Leu Thr Xaa Xaa Ala Asp Glu Thr Xaa Ser Val Ala
     214 Xaa Asp Xaa Thr Asn Val Tyr Ile Met Gly Tyr Leu Ala Gly Asp Val
                           70
  oldsymbol{q} 216 Ser Tyr Phe Phe Asn Glu Ala Ser Ala Thr Glu Ala Ala Lys Xaa Xaa
                         85
  \chi_{m{W}ackslash}218 Phe Lys Asp Ala Lys Lys Lys Xaa Thr Leu Pro Tyr Ser Gly Asn Tyr
     219
                                      105
                    100
    220 Glu Arg Xaa Gln Thr Xaa Ala Xaa Xaa Xaa Glu Asn Xaa Pro Leu
                115
                                     120
                                                         125
     222 Gly Xaa Pro Ala Xaa Asp Ser Ala Xaa Thr Thr Xaa Tyr Xaa Xaa Thr
            130
                                 135
     224 Ala Ser Ser Ala Ala Ser Ala Xaa Xaa Xaa Ile Gln Ser Thr Ala
     226 Glu Ser Ala Arg Tyr Lys Phe Ile Glu Gln Gln Ile Gly Lys Arg Val
                                             170
                         165
     228 Asp Lys Thr Phe Leu Pro Ser Leu Ala Thr Xaa Ser Xaa Glu Asn Asn
```

The type of errors shown exist throughout the Social and Listing. Please check subsequent sequences for similar errors.

185

230 Trp Ser Ala Xaa Ser Xaa Gln Xaa Gln Xaa Ala Ser Zhr Asn Asn Gly

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Output Set: N:\CRF4\12222004\J517707.raw

```
231
            195
                                 200
                                                     205
232 Gln Phe Glu Ser Pro Val Val Leu Ile Asp Gly Asn Asn Gln Arg Val
                            215
234 Ser Ile Thr Asn Ala Ser Ala Arg Val Val Thr Ser Asn Ile Ala Leu
                        230
                                             235
236 Leu Leu Asn Arg Asn Asn Ile Ala Ala Ile Gly Glu Asp Ile Ser Met
                    245
238 Thr Leu Ile Gly Phe Glu His Gly Leu Tyr Gly Ile
                260
                                    265
242 <210> SEQ ID NO: 8
243 <211> LENGTH: 13
244 <212> TYPE: PRT
245 <213> ORGANISM: Artificial Sequence
247 <220> FEATURE:
248 <223> OTHER INFORMATION: Flu protein fragment
250 <400> SEQUENCE: 8
251 Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala Thr
252 1
255 <210> SEQ ID NO: 9
256 <211> LENGTH: 15
257 <212> TYPE: PRT
258 <213> ORGANISM: Artificial Sequence
260 <220> FEATURE:
261 <223> OTHER INFORMATION: Chlamydia peptide
263 <400> SEQUENCE: 9
264 Lys Val Val Asp Gln Ile Lys Lys Ile Ser Lys Pro Val Gln His
265 1
268 <210> SEQ ID NO: 10
269 <211> LENGTH: 13
270 <212> TYPE: PRT
271 <213> ORGANISM: Artificial Sequence
273 <220> FEATURE:
274 <223> OTHER INFORMATION: Fragments of Bryodin 1
276 <400> SEQUENCE: 10
277 Val Ser Phe Arg Leu Ser Gly Ala Thr Thr Thr Ser Tyr
278 1
281 <210> SEQ ID NO: 11
282 <211> LENGTH: 13
283 <212> TYPE: PRT
284 <213> ORGANISM: Artificial Sequence
286 <220> FEATURE:
287 <223> OTHER INFORMATION: Fragments of Bryodin 1
289 <400> SEQUENCE: 11
290 Phe Arg Leu Ser Gly Ala Thr Thr Thr Ser Tyr Gly Val
291 1
294 <210> SEQ ID NO: 12
295 <211> LENGTH: 13
296 <212> TYPE: PRT
297 <213> ORGANISM: Artificial Sequence
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RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/10/517,707

DATE: 12/22/2004

TIME: 16:16:11

Input Set : A:\MER134SEQLIST.TXT

Output Set: N:\CRF4\12222004\J517707.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; Xaa Pos. 1

Seq#:7; Xaa Pos. 123/126,130/133 Seq#:7; Xaa Pos. 196,198,200,202 (187, 140, 142, 143, 152, 157, 154, 155, 167, 189

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/517,707

TIME: 16:16:11

DATE: 12/22/2004

Input Set : A:\MER134SEQLIST.TXT

Output Set: N:\CRF4\12222004\J517707.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:130 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order! L:137 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7 L:144 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7 L:151 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7 L:158 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7 L:165 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7 L:173 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7 L:180 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7 L:186 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7 L:193 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7 L:199 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7 L:205 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7 L:206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0 M:341 Repeated in SeqNo=7